2022-23

QUALITY CONTROL REPORT

Name of the Customer : Executive Engineer, Dasaralli Division, BBMP, Bengalore.

Agency : Sri Manoj Naik B M

Name of the Work : Community Property and improvements to park in ward no. 13, shettyhalli sub division.

M/S. STRUCTIAL CONSULTANTS

(Buildings Geo-Tech & Road Materials Testing Laboratory)

ISO 9001:2015 Certified Company

#8, 3rd Cross, Byadarahalli, (Behind Govt. School) Magadi Road, Bengaluru-560091

E-mail I'd: structiallab@gmail.com Telephone No:-080-29904546 Mobile: 8277542873.

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& ISO 9001 : 2015 Certified Company

GSTIN : 29BHLPG4246D1ZD

Test Report on Cement

Project Name	: Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division
Customer	: Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No	: SCB/BBMP/MN/QC/0151/2022-23 Dated: 08-03-2023
Customer Reference No	: EE/DD/ W.O/71/2022-23 Dated: 01-07-2022
Contractor / Agency	: Sri Manoj Naik B M
Sample ID	: Cement
Test Requirments	: IS: 269:2015 (Reaffirmed 2020)
Sample Collected at Site by	: Agency
Date of Manufacture	: Feb-2023
Date of Testing	: 06-03-2023 to 07-03-2023

Sl. No.	Description	Test Method as per IS	Test Result	Requirements as per IS: 269:2015 (Reaffirmed 2020)
1	a) Initial Setting Time	IS-4031 (Part -5)-1988(RA 2019)	131 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)-1988(RA 2019)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) -1988 (RA 2014) by the Le-Chatelier	3 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4) - 1988 (Reaffirmed 2019)	27 %	-

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GSTIN : 29BHLPG4246D1ZD

Test Report on Fine Aggregates

Name of Work	: Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division	
Customer	: Executive Engineer, Dasarahalli Division, BBMP, Bangalore.	
Job No	: SCB/BBMP/MN/QC/0151/2022-23	Dated: 08-03-2023
Customer Reference No	: EE/DD/ W.O/71/2022-23	Dated: 01-07-2022
Contractor / Agency	: Sri Manoj Naik B M	
Technical Reference	: IS : 1542 Part 1 - 1992 RA-2003	
Sample Collected at Site by	: Agency	
Sample ID	: Plastering Sand	
Date of Testing	: 06-03-2023	

Total Wt. of Aggregates in gms: **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992 (RA- 2003)
10	0	0	0	100	100
4.75	28.50	2.85	2.85	97.15	95-100
2.36	3.40	0.34	3.19	96.81	95-100
1.18	39.10	3.91	7.10	92.90	90-100
600 Micron	70.50	7.05	14.15	85.85	80-100
300 Micron	235.90	23.59	37.74	62.26	20-65
150 Micron	501.30	50.13	87.87	12.13	0-15

* Information is furnished by the Customer/Representative

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GSTIN : 29BHLPG4246D1ZD

Test Report on Fine Aggregates

Name of Work	: Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division
Customer	: Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No	: SCB/BBMP/MN/QC/0151/2022-23 Dated: 08-03-2023
Customer Reference No	: EE/DD/ W.O/71/2022-23 Dated: 01-07-2022
Contractor / Agency	: Sri Manoj Naik B M
Technical Reference	: IS : 2116 Part 1 - 1980 RA-2002
Sample Collected at Site by	: Agency
Sample ID	: Masonry Sand
Date of Testing	: 06-03-2023

Total Wt. of Aggregates in gms: **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980 (RA- 2002)
4.75	0	0.00	0.00	100.00	100
2.36	75.30	7.53	7.53	92.47	90-100
1.18	197.50	19.75	27.28	72.72	70-100
600 Micron	201.40	20.14	47.42	52.58	40-100
300 Micron	210.90	21.09	68.51	31.49	5-70
150 Micron	187.30	18.73	87.24	12.76	0-15

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Test Report on Fine Aggregates

Project Name	: Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division
Customer	: Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No	: SCB/BBMP/MN/QC/0151/2022-23 Dated: 08-03-2023
Customer Reference No	: EE/DD/ W.O/71/2022-23 Dated: 01-07-2022
Contractor / Agency	: Sri Manoj Naik B M
Sample ID	: Fine Aggregate
Test Method	: IS 2386 (Part-1) 1963 (Reaffirmed 2016)
Sample Collected at Site by	: Agency
Date of Testing	: 06-03-2023

Total weight of Aggregates in gms: 1000

Is Sieve Size in mm	Weight Retained on Sieve (gm)	Percentage of Weight Retained (%)	Percentage of Weight Passing (%)	Cumulative Percentage Passing (%)	Spec.Limits As per IS 383-2016 ForZone-II
10.00	0	0	0	100	100.00
4.75	46.8	4.68	4.68	95.32	90-100
2.36	121.2	12.12	16.8	83.20	75-100
1.18	39.8	3.98	20.78	79.22	55-90
600 Micron	379	37.9	58.68	41.32	35-59
300 Micron	242.9	24.29	82.97	17.03	8-30
150 Micron	104.1	10.41	93.38	6.62	0-10

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Test Report on Aggregates

Project Name	: Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division
Customer	: Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No	: SCB/BBMP/MN/QC/0151/2022-23 Dated: 08-03-2023
Customer Reference No	: EE/DD/ W.O/71/2022-23 Dated: 01-07-2022
Contractor / Agency	: Sri Manoj Naik B M
Sample ID	: 20mm Coarse aggregates
Test Method	: IS 2386 (Part-1) 1963 (Reaffirmed 2016)
Sample Collected at Site by	: Agency
Date of Testing	: 07-03-2023

Total weight of Aggregates in gms: 5000

Is Sieve Size in mm	Weight Retained on Sieve (gm)	Percentage of Weight Retained (%)	Percentage of Weight Passing (%)	Cumulative Percentage Passing (%)	Spec.Limits IS 383-2016
40	0	0	0	100	100
20	115	2.3	2.3	97.70	90-100
10	3427	68.54	70.84	29.16	25-55
4.75	1281.6	25.632	96.472	3.53	0-10

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Test Report on Aggregates

Project Name	: Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division
Customer	: Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No	: SCB/BBMP/MN/QC/0151/2022-23 Dated: 08-03-2023
Customer Reference No	: EE/DD/ W.O/71/2022-23 Dated: 01-07-2022
Contractor / Agency	: Sri Manoj Naik B M
Sample ID	: 40mm Coarse aggregates
Test Method	: IS 2386 (Part-1) 1963 (Reaffirmed 2016)
Sample Collected at Site by	: Agency
Date of Testing	: 07-03-2023

Total weight of Aggregates in gms: 5000

Sieve Size in mm	Weight Retained on Sieve (gm)	Percentage of Weight Retained (%)	Percentage of Weight Passing (%)	Cumulative Percentage Passing (%)	Spec.Limits IS 383-2016
80.00	0	0	0	100	100.00
40.00	210.2	4.20	4.20	95.80	90-100
20.00	2791.5	55.83	60.03	39.97	30-70
10.00	956.7	19.13	79.17	20.83	10-35
4.75	874	17.48	96.65	3.35	0-5

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TEST REPORT

(GRADATION FOR WMM)

Name of the work : Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division

Customer : Executive Engineer, Dasarahalli Division, BBMP, Bangalore.

Job No : SCB/BBMP/MN/QC/0151/2022-23 Dated:13-03-2023

Customer's reference No : EE/DD/ W.O/71/2022-23 Dated: 01-07-2022

Contractor / Agencyv : Sri Manoj Naik B M

Test Location : At Laboratory

Sample Collected at site by : Agency

Source of sample : WMM mix plant

Sample ID

i) **Description** : Wet mix Macadam

ii) **Condition** : Acceptable

Oven dry weight in gm: 12400

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	440	440	3.5	96.5	95-100
22.4	4315	4755	38.3	61.7	60-80
11.2	2520	7275	58.7	41.3	40-60
4.75	1545	8820	71.1	28.9	25-40
2.36	1085	9905	79.9	20.1	15-30
0.600	1195	11100	89.5	10.5	8-22
0.075	990	12090	97.5	2.5	0-5

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→ Test conducted in the ideal Laboratory conditions as per the requirement of relevant standards.

***** END OF REPORT ****

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STAIN RESISTANCE

No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300 x 300 x 6	Stain Removed by Water	Class 1, min (13630 Part 8)
2	300 x 300 x 6	Stain Removed by Water	
3	300 x 300 x 6	Stain Removed by Water	
4	300 x 300 x 6	Stain Removed by Water	
5	300 x 300 x 6	Stain Removed by Water	

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GSTIN : 29BHLPG4246D1ZD

TEST REPORT ON VITRIFIED TILES

Name of Work	: Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division
Customer	: Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No	: SCB/BBMP/MN/QC/0151/2022-23 Dated: 15-03-2023
Customer Reference No	: EE/DD/ W.O/71/2022-23 Dated: 01-07-2022
Contractor / Agency	: Sri Manoj Naik B M
Sample ID	: Vitrified Glazed Tiles
Technical Reference	: IS 13630 - 2006 - Method of Testing Vitrified Tiles : IS 15622 - 2006 - Specification of Vitrified Tiles
No. of Samples Tested	: 05 (Five)
Sample Collected at Site by	: Agency

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 10	47.3	47.80	Average 47, indivisual minimum 44 N/mm^2
2	600 x 600 x 10	47.0		
3	600 x 600 x 10	48.0		
4	600 x 600 x 10	48.5		
5	600 x 600 x 10	48.2		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 10	No visible effect	Class AA, min (13630 Part 8)
2	600 x 600 x 10	No visible effect	
3	600 x 600 x 10	No visible effect	
4	600 x 600 x 10	No visible effect	
5	600 x 600 x 10	No visible effect	

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III. **STAIN RESISTANCE**

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 10	Stain Removed by Water	Class 1, min (13630 Part 8)
2	600 x 600 x 10	Stain Removed by Water	
3	600 x 600 x 10	Stain Removed by Water	
4	600 x 600 x 10	Stain Removed by Water	
5	600 x 600 x 10	Stain Removed by Water	

*Information is furnished by the Agency

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GSTIN : 29BHLPG4246D1ZD

TEST REPORT

Name Of Work	:	Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division.
Customer	:	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No	:	SCB/BBMP/MN/QC/0151/2022-23 Dated: 16-03-2023
Customer Reference No	:	EE/DD/ W.O/71/2022-23 Dated: 01-07-2022
Contractor / Agency	:	Sri Manoj Naik B M
Type Of The Test	:	Physical Tests on Heavy Duty Cobble Stone Interlock Pavers
Sample Collected at Site by	:	Agency

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	60.20	60.23
2	02	60.25	

2. COMPRESSIVE STRENGTH:

Sl.No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2
1	01	681.5	24,200	28.16
2	02	682.3	24,200	28.19

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GSTIN : 29BHLPG4246D1ZD

TEST REPORT

CONCRETE CORE (KERB STONE)

Name of the work : Community Property and Improvements to Park in Ward No-13, Shettyhalli Sub-Division

Customer : Executive Engineer, Dasarahalli Division, BBMP, Bangalore.

Job No : SCB/BBMP/MN/QC/0151/2022-23 Dated: 18-03-2023

Customer's reference No : EE/DD/ W.O/71/2022-23 Dated: 01-07-2022

Contractor / Agency : Sri Manoj Naik B M

Techinical Reference : IS:516 (Part-4) : 2018.

Test Location : At Laboratory

Sample Collected at Site by : Agency

Sample ID

i) **Description** : Kerb Stone

ii) **Condition** : Acceptable

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.60	0.395	2465.34	1.63	0.960	29.00	14.77	15.66	15.02	18.78
2	50.00	80.90	0.402	2530.74	1.62	0.958	25.00	12.73	13.50	12.93	16.16
3	50.00	82.20	0.387	2397.78	1.64	0.961	27.00	13.75	14.58	14.01	17.51

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